

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
27 January 2005 (27.01.2005)

PCT

(10) International Publication Number  
WO 2005/007178 A1

(51) International Patent Classification<sup>7</sup>: A61K 35/74,  
A61P 31/04

(21) International Application Number:  
PCT/NZ2004/000153

(22) International Filing Date: 19 July 2004 (19.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
527075 18 July 2003 (18.07.2003) NZ  
532382 20 April 2004 (20.04.2004) NZ

(71) Applicant (for all designated States except US): BLIS  
TECHNOLOGIES LIMITED [NZ/NZ]; Level 10 Otago  
House, Dunedin (NZ).

(72) Inventors; and

(75) Inventors/Applicants (for US only): TAGG, John,  
Robert [AU/NZ]; 39 Braeview Crescent, Dunedin (NZ).  
CHILCOTT, Christopher, Norman [NZ/NZ]; 55 Sil-  
verton Street, Andersons Bay, Dunedin (NZ). BURTON,  
Jeremy, Paul [AU/NZ]; 25A Ross Street, Dunedin (NZ).

(74) Agents: GRIFFITHS, Teresa, V et al.; A J Park, 6th Floor  
Huddart Parker Building, Post Office Square, P O Box 949,  
Wellington, 6015 (NZ).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Burasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

WO 2005/007178 A1

(54) Title: TREATMENT OF MALODOUR

(57) Abstract: This invention relates to methods for inhibiting growth of anaerobic bacteria, particularly halitosis causing bacteria. The methods use BLIS-producing Streptococcus salivarius strains, extracts thereof, and compositions comprising same in the pre-  
vention or treatment of halitosis.